



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/KLKG/CSR-03/778i/CEMENT/2014-15

Date: 05.03.2015

TEST REPORT ON CEMENT

* CUSTOMER	: Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* AGENCY	: Mr. K.L. Kalegowda # 1525 A, 5 th Main, 11 th Cross, West of Chord Road, 2 nd Stage, Bangalore – 560 086.
* NAME OF THE WORK	: Improvements o footpath 5 th Cross Roads of W/s at Kalyananagara in Ward No. 13 in Shettyhalli Sub Division, BBMP, Bangalore.
REFERENCE	: BBMP/AEE/SSD/DZ/PR/197/2014-15 Dated: 02.03.2015
SAMPLE ID	: Cement
SAMPLE RECEIVED ON	: 02.03.2015
PERIOD OF TESTING	: 02.03.2015 to 05.03.2015



The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	465 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Any Query regarding the report must be reported within 30 days from the date of testing.

VISHWANATH .C
Quality Manager

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Job No.: CTCE/BBMP/KLKG/CSR-03/778i/SAND-Gradation/2014-15

: 05.03.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* **Customer** : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

* **Agency** : Mr. K.L. Kalegowda
1525 A, 5th Main, 11th Cross, West of Chord Road, 2nd Stage, Bangalore – 560 086.

* **Name of Work** : Improvements o footpath 5th Cross Roads of W/s at Kalyananagara in Ward No. 13 in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/197/2014-15 Dated: 02.03.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 02.03.2015

Date of Testing : 05.03.2015



Total Wt. of Aggregates in gms

1000

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.79	90-100	90-100	90-100	95-100
2.36	77.00	60-95	75-100	85-100	95-100
1.18	56.86	30-70	55-90	75-100	90-100
600 Micron	38.50	15-34	35-59	60-79	80-100
300 Micron	12.63	5-20	8-30	12-40	15-50
150 Micron	3.98	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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VISHWANATH .C
Quality Manager

AE-13
ಕಾರ್ಯದ ಕಾರ್ಯದ ಅಧಿಕಾರಿಗಳು
ಶಿಕ್ಷಕರು, ಶಿಕ್ಷಕರು, ಶಿಕ್ಷಕರು
ಬಿ.ಎಂ.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

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Job No.: CTCE/BBMP/KLKG/CSR-03/778i/AGG/GR/2014-15

: 05.03.2015

TEST REPORT ON COARSE AGGREGATES

* Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

* Agency : Mr. K.L. Kalegowda
1525 A, 5th Main, 11th Cross, West of Chord Road, 2nd Stage,
Bangalore - 560 086.

* Name of Work : Improvements o footpath 5th Cross Roads of W/s at Kalyananagara in Ward
No. 13 in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/197/2014-15 Dated: 02.03.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 02.03.2015

Date of Testing : 05.03.2015



Total Wt. of Aggregates in gms= 10000

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.94	95-100	85-100
20	48.69	30-70	0-20
10	12.57	10-35	0-5
4.75	1.63	0-5	-

Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/KLKG/CSR-03/778i/CC Solid Block/2014-15

: 10.03.2015

TEST REPORT ON CEMENT CONCRETE SOLID BLOCKS

* Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

* Agency : Mr. K.L. Kalegowda
1525 A, 5th Main, 11th Cross, West of Chord Road, 2nd Stage,
Bangalore - 560 086.

* Name of the Work : Improvements o footpath 5th Cross Roads of W/s at Kalyananagara in Ward
No. 13 in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/197/2014-15 Dated: 02.03.2015

Sample Received on : 06.03.2015

Date of Testing : 10.03.2015

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 80000 mm²

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 08



Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm ²)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	26.32	263.4	3.29	Minimum required Compressive Strength of Individual Units 3.20 N/mm ²
2	Block 2	25.48	265.9	3.32	
3	Block 3	23.95	267.4	3.34	
4	Block 4	25.87	264.8	3.31	
5	Block 5	26.43	266.7	3.33	
6	Block 6	27.95	263.1	3.29	
7	Block 7	26.15	263.8	3.30	
8	Block 8	25.34	265.3	3.32	

* Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/KLKG/CSR-03/778i/CC Solid Block/2014-15

: 10.03.2015

TEST REPORT ON CEMENT CONCRETE SOLID BLOCKS

* Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

* Agency : Mr. K.L. Kalegowda
1525 A, 5th Main, 11th Cross, West of Chord Road, 2nd Stage,
Bangalore - 560 086.

* Name of the Work : Improvements o footpath 5th Cross Roads of W/s at Kalyananagara in Ward
No. 13 in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/197/2014-15 Dated: 02.03.2015

Sample Received on : 06.03.2015

Date of Testing : 10.03.2015

Size of Blocks : 400mm x 150mm x 200mm

Cross Sectional Area : 60000 mm²

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 08



Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm ²)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	25.16	196.5	3.28	Minimum required Compressive Strength of Individual Units 3.20 N/mm ²
2	Block 2	26.84	198.6	3.31	
3	Block 3	27.19	197.2	3.29	
4	Block 4	25.43	195.4	3.26	
5	Block 5	26.12	196.9	3.28	
6	Block 6	27.45	199.4	3.32	
7	Block 7	24.96	196.2	3.27	
8	Block 8	25.28	195.2	3.25	

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Job No.: CTCE/BBMP/KLKG/CSR-03/778i/Precast Slab/2014-15



20.03.2015

TEST REPORT ON CONCRETE CORE (PRECAST SLAB)

* Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

* Agency : Mr. K.L. Kalegowda
1525 A, 5th Main, 11th Cross, West of Chord Road, 2nd Stage, Bangalore – 560 086.

* Name of work : Improvements o footpath 5th Cross Roads of W/s at Kalyananagara in Ward No. 13 in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/197/2014-15 Dated: 02.03.2015

Technical Reference : IS:516-1959 (Reaffirmed 2008), SP-24:1983.

Sample ID : Precast Slab

Sample Received on : 02.03.2015

Date of Testing : 20.03.2015

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	76.00	0.377	2526.38	1.52	0.950	31.9	16.24	17.54	16.66	20.82
2	50.00	78.00	0.392	2559.54	1.56	0.960	31.9	16.24	17.54	16.84	21.05
3	50.00	80.00	0.404	2571.94	1.60	0.950	32.6	16.59	17.92	17.02	21.28

*Information is furnished by the Customer/Representative.

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Job No.: v/CUBE/2014-15

23.04.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
- * Agency : Mr. K.L. Kalegowda
1525 A, 5th Main, 11th Cross, West of Chord Road, 2nd Stage,
Bangalore - 560 086.
- * Name of the work : Improvements o footpath 5th Cross Roads of W/s at Kalyananagara in
Ward No. 13 in Shettyhalli Sub Division, BBMP, Bangalore.
- Reference : BBMP/AEE/SSD/DZ/PR/197/2014-15 Dated: 02.03.2015
- * Sample ID : Cement Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm²
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- * Grade of Concrete : M₁₅
- Compressive Strength as on : 28th day
- Sample Received on : 26.03.2015



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	26.03.2015	23.04.2015	8.167	365.7	16.25
2	26.03.2015	23.04.2015	8.253	381.2	16.94
3	26.03.2015	23.04.2015	8.349	398.7	17.72

* Information is furnished by the Customer/Representative

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23/4
ಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿಯಂತರರು
ಬೆಂಗಳೂರು ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

